

**Safety Data Sheet Cover-Sheet** – This page provides additional New Zealand specific information for this product, and must be read in conjunction with the Safety Data Sheet (SDS) attached.

Product Name: ESPE™ RelyX™ Luting Plus Automix Cement

Manufacturer: 3M Corporation

SDS Expiry: 27 May 2024

Supplier Details: Henry Schein New Zealand  
23 William Pickering Drive, Albany  
PO Box 101 140, North Shore, Auckland 0745  
Ph. 0800 808 855  
[www.henryschein.co.nz](http://www.henryschein.co.nz)

Emergency Contacts: Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours)  
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 5 / 6

HSNO Group Standard: Dental Products Oxidising 5.1.1 Group Standard 2017 HSR002557

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared on 25 September 2019

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 29-6283-5  | <b>Version number:</b>  | 2.00       |
| <b>Issue Date:</b>     | 27/05/2019 | <b>Supersedes date:</b> | 16/09/2014 |

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### IDENTIFICATION:

#### 1.1. Product identifier

3535 / 3535TK / 3535SK 3M™ ESPE™ RelyX™ Luting Plus Automix Cement

#### Product Identification Numbers

70-2010-8555-5

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Dental product, Dental luting cement

##### Restrictions on use

For use by dental professionals only.

#### 1.3. Supplier's details

**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland  
**Telephone:** (09) 477 4040  
**E Mail:** innovation@nz.mmm.com  
**Website:** 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the SDSs for components of this product are:**

29-6280-1, 29-6234-8

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

### TRANSPORT INFORMATION

NOT HAZARDOUS FOR TRANSPORT

**Revision information:**

Complete document review.

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**Document group:** 29-6234-8 **Version number:** 2.00  
**Issue Date:** 06/06/2019 **Supersedes date:** 16/09/2014

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE A

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Dental Product, Luting cement

##### Restrictions on use

For use by dental professionals only.

#### 1.3. Supplier's details

**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland  
**Telephone:** (09) 477 4040  
**E Mail:** innovation@nz.mmm.com  
**Website:** 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

### SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

| GHS                               | HSNO                       |
|-----------------------------------|----------------------------|
| Acute Toxicity (oral): Category 5 | 6.1E Acute toxicity (oral) |
| Skin Sensitiser: Category 1       | 6.5B Skin sensitiser       |

#### 2.2. Label elements

**SIGNAL WORD**

WARNING!

**Symbols:**

Exclamation mark |

**Pictograms**



**HAZARD STATEMENTS:**

H303 May be harmful if swallowed.  
 H317 May cause an allergic skin reaction.

**PRECAUTIONARY STATEMENTS**

**Prevention:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280E Wear protective gloves.  
 P272A Contaminated work clothing must not be allowed out of the workplace.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P321 Specific treatment (see Notes to Physician on this label).  
 P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

**Disposal:**

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**SECTION 3: Composition/information on ingredients**

| Ingredient   | CAS Nbr    | % by Weight |
|--|------------|-------------|
| Water  | 7732-18-5  | 10 - 20     |
| 2-hydroxyethyl methacrylate  | 868-77-9   | 5 - 10      |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | 68909-20-6 | 1 - 5       |

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get

medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1 Information on toxicological effects

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Suitable extinguishing media**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products**

**Substance**

Carbon monoxide.  
Carbon dioxide.

**Condition**

During combustion.  
During combustion.

**5.3. Special protective actions for fire-fighters**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code:** Not applicable.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

**SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

**7.1. Precautions for safe handling**

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated

## 3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE A

work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not get in eyes.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

### 7.3. Certified handler

Not required

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety glasses with side shields.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

##### Skin/hand protection

See Section 7.1 for additional information on skin protection.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state                                    | Solid.   |
| Specific Physical Form:                           | Paste  |
| Appearance/Odour                                  | Off-white to slight yellow, characteristic odour |
| Odour threshold                                   | <i>No data available.</i>                        |
| pH  | <i>No data available.</i>                        |
| Melting point/Freezing point                      | <i>No data available.</i>                        |
| Boiling point/Initial boiling point/Boiling range | <i>No data available.</i>                        |
| Flash point                                       | No flash point                                   |
| Evaporation rate                                  | <i>No data available.</i>                        |
| Flammability (solid, gas)                         | Not classified                                   |
| Flammable Limits(LEL)                             | <i>No data available.</i>                        |
| Flammable Limits(UEL)                             | <i>No data available.</i>                        |
| Vapour pressure                                   | <i>No data available.</i>                        |

|  |                        |
|--|------------------------|
| Vapour density                         | No data available.     |
| Density                                | 1.5 g/cm <sup>3</sup>  |
| Relative density                       | 1.5 [Ref Std: WATER=1] |
| Water solubility                       | Negligible             |
| Solubility- non-water                  | No data available.     |
| Partition coefficient: n-octanol/water | No data available.     |
| Autoignition temperature               | No data available.     |
| Decomposition temperature              | No data available.     |
| Viscosity                              | No data available.     |
| Volatile organic compounds (VOC)       | No data available.     |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
|------------------|------------------|

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

This product may have a characteristic odour; however, no adverse health effects are anticipated.

#### Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo



**3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE A**

induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye contact**

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion**

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Additional Health Effects:****Carcinogenicity:**

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name   | Route                          | Species | Value  |
|--|--------------------------------|---------|--|
| Overall product  | Ingestion                      |         | No data available; calculated ATE2,000 - 5,000 mg/kg |
| 2-hydroxyethyl methacrylate  | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                   |
| 2-hydroxyethyl methacrylate  | Ingestion                      | Rat     | LD50 5,564 mg/kg                                     |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                   |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                                    |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                                   |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species | Value                     |
|--|---------|---------------------------|
| 2-hydroxyethyl methacrylate  | Rabbit  | Minimal irritation        |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species | Value                     |
|--|---------|---------------------------|
| 2-hydroxyethyl methacrylate  | Rabbit  | Moderate irritant         |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Rabbit  | No significant irritation |

**Skin Sensitisation**

| Name   | Species          | Value          |
|--|------------------|----------------|
| 2-hydroxyethyl methacrylate  | Human and animal | Sensitising    |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Human and animal | Not classified |

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE A****Germ Cell Mutagenicity**

| Name   | Route    | Value  |
|--|----------|--|
| 2-hydroxyethyl methacrylate  | In vivo  | Not mutagenic  |
| 2-hydroxyethyl methacrylate  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | In Vitro | Not mutagenic  |

**Carcinogenicity**

| Name   | Route          | Species | Value  |
|--|----------------|---------|--|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Not specified. | Mouse   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name   | Route     | Value                                  | Species | Test result           | Exposure Duration             |
|--|-----------|--|---------|-----------------------|-------------------------------|
| 2-hydroxyethyl methacrylate  | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | pre mating & during gestation |
| 2-hydroxyethyl methacrylate  | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 49 days                       |
| 2-hydroxyethyl methacrylate  | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | pre mating & during gestation |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation                  |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation                  |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis          |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route      | Target Organ(s)                | Value          | Species | Test result         | Exposure Duration     |
|--|------------|--------------------------------|----------------|---------|---------------------|-----------------------|
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl)propyl ester, hydrolysis products with silica | Inhalation | respiratory system   silicosis | Not classified | Human   | NOAEL Not available | occupational exposure |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient

classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

### 12.1. Toxicity

No product test data available.

| Material  | CAS Number | Organism       | Type         | Exposure | Test endpoint | Test result |
|---|------------|----------------|--------------|----------|---------------|-------------|
| 2-hydroxyethyl methacrylate   | 868-77-9   | Fathead minnow | Experimental | 96 hours | LC50          | 227 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Green algae    | Experimental | 72 hours | EC50          | 710 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Water flea     | Experimental | 48 hours | EC50          | 380 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Green Algae    | Experimental | 72 hours | NOEC          | 160 mg/l    |
| 2-hydroxyethyl methacrylate   | 868-77-9   | Water flea     | Experimental | 21 days  | NOEC          | 24.1 mg/l   |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 68909-20-6 | Algae          | Estimated    | 72 hours | EC50          | >100 mg/l   |

### 12.2. Persistence and degradability

| Material  | CAS Number | Test type                         | Duration | Study Type | Test result    | Protocol                  |
|---|------------|-----------------------------------|----------|------------|----------------|---------------------------|
| 2-hydroxyethyl methacrylate   | 868-77-9   | Experimental Biodegradation       | 14 days  | BOD        | 95 % BOD/ThBOD | OECD 301C - MITI test (I) |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis products with silica | 68909-20-6 | Data not available - insufficient |          |            | N/A            |                           |

### 12.3 : Bioaccumulative potential

| Material   | CAS Number | Test type   | Duration | Study Type | Test result | Protocol      |
|--|------------|---|----------|------------|-------------|---------------|
| 2-hydroxyethyl methacrylate  | 868-77-9   | Experimental Bioconcentration                         |          | Log Kow    | 0.42        | Other methods |
| 2-Propenoic acid, 2-methyl-, 3-(trimetoxysilyl) propyl ester, hydrolysis | 68909-20-6 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A           |

## 3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE A

|                      |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|
| products with silica |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

## SECTION 14: Transport Information

### New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

**UN No.:** Not applicable.

**Proper Shipping Name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable.

**IERG:** Not applicable.

### International Air Transport Association (IATA) - Air Transport

**UN No.:** Not applicable.

**Proper Shipping Name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

### International Maritime Dangerous Goods Code (IMDG) - Marine Transport

**UN No.:** Not applicable.

**Proper Shipping Name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

HSNO Approval number

HSR002558

Group standard name

Dental Products (Subsidiary Hazard) Group Standard 2017

**3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE A**

HSNO Hazard classification Refer to Section 2: Hazard identification

**NZ Inventory of Chemicals (NZIoC) Status**

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

**Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017**

|                                 |   |
|---------------------------------|---|
| Certified handler               | Not required  |
| Location Compliance Certificate | Not required  |
| Hazardous atmosphere zone       | Not required  |
| Fire extinguishers              | Not required  |
| Emergency response plan         | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance) |
| Secondary containment           | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance) |
| Tracking                        | Not required  |
| Warning signage                 | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.1D or 9.1D substance)                             |

**SECTION 16: Other information****Revision information:**

Complete document review.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 29-6234-8  | <b>Version number:</b>  | 2.00       |
| <b>Issue Date:</b>     | 06/06/2019 | <b>Supersedes date:</b> | 16/09/2014 |

**Key to abbreviations and acronyms**

**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013

**HSNO** means Hazardous Substances and New Organisms Act 1996

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE B

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Dental Product, Luting cement

##### Restrictions on use

For use by dental professionals only.

#### 1.3. Supplier's details

**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland  
**Telephone:** (09) 477 4040  
**E Mail:** innovation@nz.mmm.com  
**Website:** 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

### SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

| GHS                                       | HSNO                          |
|---|-------------------------------|
| Oxidising Solid: Category 3               | 5.1.1C Oxidising solid/liquid |
| Serious Eye Damage/Irritation: Category 2 | 6.4A Irritating to the eye    |
| Skin Corrosion/Irritation: Category 3     | 6.3B Irritating to the skin   |
| Skin Sensitiser: Category 1               | 6.5B Skin sensitiser          |

#### 2.2. Label elements

## 3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE B

### SIGNAL WORD

WARNING!

### Symbols:

Flame over circle | Exclamation mark |

### Pictograms



### HAZARD STATEMENTS:

|      |                                      |
|------|--------------------------------------|
| H272 | May intensify fire; oxidizer.        |
| H319 | Causes serious eye irritation.       |
| H316 | Causes mild skin irritation.         |
| H317 | May cause an allergic skin reaction. |

### PRECAUTIONARY STATEMENTS

#### Prevention:

|       |  |
|-------|--|
| P220  | Keep away from clothing and other combustible materials.                                       |
| P210A | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261  | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P280E | Wear protective gloves.  |
| P264B | Wash exposed skin thoroughly after handling.   |
| P272A | Contaminated work clothing must not be allowed out of the workplace.                           |

#### Response:

|                    |  |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.  |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.  |
| P332 + P313        | If skin irritation occurs: Get medical advice/attention.   |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.   |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |
| P321               | Specific treatment (see Notes to Physician on this label).   |
| P370 + P378A       | In case of fire: Use a water extinguisher to extinguish.   |

#### Disposal:

|      |  |
|------|--|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |
|------|--|

## SECTION 3: Composition/information on ingredients

| Ingredient                              | CAS Nbr     | % by Weight |
|---|-------------|-------------|
| Silane treated ceramic                  | 444758-98-9 | 30 - 40     |
| Copolymer of acrylic and itaconic acids | 25948-33-8  | 20 - 30     |
| 2-hydroxyethyl methacrylate             | 868-77-9    | 10 - 20     |
| Water                                   | 7732-18-5   | 5 - 15      |
| Potassium dihydrogenorthophosphate      | 7778-77-0   | 1 - 5       |
| Potassium persulphate                   | 7727-21-1   | 1 - 5       |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

#### If swallowed

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a water extinguisher to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>   |
|------------------|--------------------|
| Carbon monoxide. | During combustion. |
| Carbon dioxide.  | During combustion. |

### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

### 5.4. Hazchem code: Not applicable.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for



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information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

### 7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take any precaution to avoid mixing with combustibles. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not get in eyes.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Keep/store away from clothing and other combustible materials.

### 7.3. Certified handler

Not required

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| <b>Ingredient</b>    | <b>CAS Nbr</b> | <b>Agency</b> | <b>Limit type</b>            | <b>Additional comments</b> |
|----------------------|----------------|---------------|------------------------------|----------------------------|
| PERSULFATE COMPOUNDS | 7727-21-1      | ACGIH         | TWA(as persulfate):0.1 mg/m3 |                            |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face

protection(s) are recommended:  
Safety glasses with side shields.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

**Skin/hand protection**

See Section 7.1 for additional information on skin protection.

**Respiratory protection**

None required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |  |
|---|--|
| Physical state                                    | Solid.   |
| Specific Physical Form:                           | Paste  |
| Appearance/Odour                                  | Clear to slight yellow colour, characteristic odour. |
| Odour threshold                                   | <i>No data available.</i>                            |
| pH  | <i>No data available.</i>                            |
| Melting point/Freezing point                      | <i>Not applicable.</i>                               |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i>                               |
| Flash point                                       | No flash point                                       |
| Evaporation rate                                  | <i>No data available.</i>                            |
| Flammability (solid, gas)                         | Not classified                                       |
| Flammable Limits(LEL)                             | <i>No data available.</i>                            |
| Flammable Limits(UEL)                             | <i>No data available.</i>                            |
| Vapour pressure                                   | <i>No data available.</i>                            |
| Vapour density                                    | <i>No data available.</i>                            |
| Density   | 1.5 g/cm <sup>3</sup>                                |
| Relative density                                  | 1.5 [Ref Std: WATER=1]                               |
| Water solubility                                  | Negligible   |
| Solubility- non-water                             | <i>No data available.</i>                            |
| Partition coefficient: n-octanol/water            | <i>No data available.</i>                            |
| Autoignition temperature                          | <i>No data available.</i>                            |
| Decomposition temperature                         | <i>No data available.</i>                            |
| Viscosity   | <i>No data available.</i>                            |
| Volatile organic compounds (VOC)                  | <i>Not applicable.</i>                               |

**SECTION 10: Stability and reactivity****10.1 Reactivity**

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

**10.2 Chemical stability**

Stable.

**10.3 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**

Heat.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

**Substance**

**Condition**

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation**

This product may have a characteristic odour; however, no adverse health effects are anticipated.

**Skin contact**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| <b>Name</b>                             | <b>Route</b> | <b>Species</b>         | <b>Value</b>                                   |
|---|--------------|------------------------|--|
| Overall product                         | Ingestion    |                        | No data available; calculated ATE >5,000 mg/kg |
| Silane treated ceramic                  | Dermal       |                        | LD50 estimated to be > 5,000 mg/kg             |
| Silane treated ceramic                  | Ingestion    |                        | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Copolymer of acrylic and itaconic acids | Ingestion    | Rat                    | LD50 > 5,000 mg/kg                             |
| Copolymer of acrylic and itaconic acids | Dermal       | similar health hazards | LD50 estimated to be > 5,000 mg/kg             |
| 2-hydroxyethyl methacrylate             | Dermal       | Rabbit                 | LD50 > 5,000 mg/kg                             |
| 2-hydroxyethyl methacrylate             | Ingestion    | Rat                    | LD50 5,564 mg/kg                               |
| Potassium dihydrogenorthophosphate      | Dermal       | Rabbit                 | LD50 > 4,640 mg/kg                             |
| Potassium dihydrogenorthophosphate      | Ingestion    | Rat                    | LD50 > 4,640 mg/kg                             |
| Potassium persulphate                   | Dermal       | Rabbit                 | LD50 > 10,000 mg/kg                            |

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|                       |                                |     |                  |
|-----------------------|--------------------------------|-----|------------------|
| Potassium persulphate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 10.7 mg/l |
| Potassium persulphate | Ingestion                      | Rat | LD50 1,130 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                        | Species           | Value                     |
|-----------------------------|-------------------|---------------------------|
| Silane treated ceramic      | similar compounds | No significant irritation |
| 2-hydroxyethyl methacrylate | Rabbit            | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name                        | Species           | Value             |
|-----------------------------|-------------------|-------------------|
| Silane treated ceramic      | similar compounds | Mild irritant     |
| 2-hydroxyethyl methacrylate | Rabbit            | Moderate irritant |

**Skin Sensitisation**

| Name                        | Species           | Value          |
|-----------------------------|-------------------|----------------|
| Silane treated ceramic      | similar compounds | Not classified |
| 2-hydroxyethyl methacrylate | Human and animal  | Sensitising    |

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name                        | Route    | Value  |
|-----------------------------|----------|--|
| 2-hydroxyethyl methacrylate | In vivo  | Not mutagenic  |
| 2-hydroxyethyl methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                   | Route      | Species           | Value  |
|------------------------|------------|-------------------|--|
| Silane treated ceramic | Inhalation | similar compounds | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                        | Route     | Value                                  | Species | Test result           | Exposure Duration              |
|-----------------------------|-----------|--|---------|-----------------------|--------------------------------|
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 49 days                        |
| 2-hydroxyethyl methacrylate | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |

**3M™ ESPE™ RELYX™ LUTING PLUS CEMENT PASTE B****Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                                    | Route     | Target Organ(s) | Value          | Species | Test result          | Exposure Duration |
|---|-----------|-----------------|----------------|---------|----------------------|-------------------|
| Copolymer of acrylic and itaconic acids | Ingestion | nervous system  | Not classified | Rat     | NOAEL<br>5,000 mg/kg |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                    | Route      | Target Organ(s)  | Value          | Species           | Test result           | Exposure Duration |
|---|------------|--|----------------|-------------------|-----------------------|-------------------|
| Silane treated ceramic                  | Inhalation | pulmonary fibrosis   | Not classified | similar compounds | NOAEL Not available   |                   |
| Copolymer of acrylic and itaconic acids | Ingestion  | endocrine system   hematopoietic system   liver  | Not classified | Rat               | NOAEL 200 mg/kg/day   | 28 days           |
| Copolymer of acrylic and itaconic acids | Ingestion  | heart   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | Rat               | NOAEL 2,000 mg/kg/day | 28 days           |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity**

No product test data available.

| Material                                | CAS Number  | Organism       | Type  | Exposure | Test endpoint | Test result |
|---|-------------|----------------|---|----------|---------------|-------------|
| Silane treated ceramic                  | 444758-98-9 |                | Data not available or insufficient for classification |          |               |             |
| Copolymer of acrylic and itaconic acids | 25948-33-8  |                | Data not available or insufficient for classification |          |               |             |
| 2-hydroxyethyl methacrylate             | 868-77-9    | Fathead minnow | Experimental  | 96 hours | LC50          | 227 mg/l    |
| 2-hydroxyethyl methacrylate             | 868-77-9    | Water flea     | Experimental  | 48 hours | EC50          | 380 mg/l    |

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|                                    |           |               |              |          |      |            |
|------------------------------------|-----------|---------------|--------------|----------|------|------------|
| 2-hydroxyethyl methacrylate        | 868-77-9  | Green algae   | Experimental | 72 hours | EC50 | 710 mg/l   |
| 2-hydroxyethyl methacrylate        | 868-77-9  | Water flea    | Experimental | 21 days  | NOEC | 24.1 mg/l  |
| 2-hydroxyethyl methacrylate        | 868-77-9  | Green Algae   | Experimental | 72 hours | NOEC | 160 mg/l   |
| Potassium dihydrogenorthophosphate | 7778-77-0 | Water flea    | Estimated    | 48 hours | EC50 | >100 mg/l  |
| Potassium dihydrogenorthophosphate | 7778-77-0 | Green algae   | Estimated    | 72 hours | EC50 | >100 mg/l  |
| Potassium dihydrogenorthophosphate | 7778-77-0 | Rainbow trout | Estimated    | 96 hours | LC50 | >100 mg/l  |
| Potassium dihydrogenorthophosphate | 7778-77-0 | Green algae   | Estimated    | 72 hours | NOEC | 100 mg/l   |
| Potassium persulphate              | 7727-21-1 | Algae other   | Estimated    | 72 hours | EC50 | 320 mg/l   |
| Potassium persulphate              | 7727-21-1 | Rainbow trout | Estimated    | 96 hours | LC50 | 76.3 mg/l  |
| Potassium persulphate              | 7727-21-1 | Copepods      | Estimated    | 48 hours | LC50 | 21.22 mg/l |
| Potassium persulphate              | 7727-21-1 | Algae other   | Estimated    | 72 hours | NOEC | 32 mg/l    |

**12.2. Persistence and degradability**

| Material                                | CAS Number  | Test type                     | Duration | Study Type | Test result    | Protocol                  |
|---|-------------|-------------------------------|----------|------------|----------------|---------------------------|
| Silane treated ceramic                  | 444758-98-9 | Data not availbl-insufficient |          |            | N/A            |                           |
| Copolymer of acrylic and itaconic acids | 25948-33-8  | Data not availbl-insufficient |          |            | N/A            |                           |
| 2-hydroxyethyl methacrylate             | 868-77-9    | Experimental Biodegradation   | 14 days  | BOD        | 95 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Potassium dihydrogenorthophosphate      | 7778-77-0   | Data not availbl-insufficient |          |            | N/A            |                           |
| Potassium persulphate                   | 7727-21-1   | Data not availbl-insufficient |          |            | N/A            |                           |

**12.3 : Bioaccumulative potential**

| Material                 | CAS Number  | Test type   | Duration | Study Type | Test result | Protocol |
|--------------------------|-------------|---|----------|------------|-------------|----------|
| Silane treated ceramic   | 444758-98-9 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |
| Copolymer of acrylic and | 25948-33-8  | Data not available or                                 | N/A      | N/A        | N/A         | N/A      |

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|                                    |           |   |     |         |      |               |
|------------------------------------|-----------|---|-----|---------|------|---------------|
| itaconic acids                     |           | insufficient for classification                       |     |         |      |               |
| 2-hydroxyethyl methacrylate        | 868-77-9  | Experimental Bioconcentration                         |     | Log Kow | 0.42 | Other methods |
| Potassium dihydrogenorthophosphate | 7778-77-0 | Data not available or insufficient for classification | N/A | N/A     | N/A  | N/A           |
| Potassium persulphate              | 7727-21-1 | Data not available or insufficient for classification | N/A | N/A     | N/A  | N/A           |

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

**SECTION 14: Transport Information****New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**

**UN No.:** Not applicable.

**Proper Shipping Name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable.

**IERG:** Not applicable.

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** Not applicable.

**Proper Shipping Name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**

**UN No.:** Not applicable.

**Proper Shipping Name:** Not applicable.

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**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

### SECTION 15: Regulatory information

HSNO Approval number HSR002557  
Group standard name Dental Products (Oxidising [5.1.1]) Group Standard 2017  
HSNO Hazard classification Refer to Section 2: Hazard identification

#### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

#### Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017

Certified handler Not required  
Location Compliance Certificate 100 L or 100 kg where manufactured or used, or 1,000 L or 1,000 kg in closed containers only  
Hazardous atmosphere zone Not required  
Fire extinguishers Two required for 500 L or 500 kg  
Emergency response plan 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 5,000 L or 5,000 kg (for all other substances)  
Secondary containment 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 5,000 L or 5,000 kg (for all other substances)  
Tracking Not required  
Warning signage 100 L (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for all other substances)

### SECTION 16: Other information

#### Revision information:

Complete document review.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 29-6280-1  | <b>Version number:</b>  | 2.00       |
| <b>Issue Date:</b>     | 03/06/2019 | <b>Supersedes date:</b> | 16/09/2014 |

#### Key to abbreviations and acronyms

**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013

**HSNO** means Hazardous Substances and New Organisms Act 1996

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